

MATERIAL SAFETY DATA SHEET

BIX EXTERIOR WINDOW WASHER

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Office:	Plant:	(24 HOUR) EMERGENCY PHONE:
BIX MFG. CO.	BIX MFG. CO.	INFOTRAC: (800) 535-5053
P.O. Box 69	2011 Ashland City Hwy.	<i>Effective:</i> March 27, 2001
Ashland City, TN 37015	Ashland City, TN 37015	<i>Supersedes:</i> March 20, 2001
PHONE: (615) 792-03260 / (800) 251-1098		
Internet: www.bixmfg.com		

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS Number	Approximate % by wt.
Dipropylene glycol monomethyl ether	34590-94-8	< 5%
Tetrasodium ethylenediaminetetraacetate	64-02-8	< 10%
Nonylphenol polyethylene glycol ether	127087-87-0	< 5%
Alkyl sulfate	Not available	< 2%
Modified alkylaryl polyether	Not available	< 2%
Linear alkylbenzene sulfonate	Not available	< 3%
Polymer	Not available	< 2%
Ethylenediaminetetraacetic acid	60-00-4	< 1%
Water	7732-18-5	> 78%

See Section 8 for exposure guidelines.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause irritation to the eyes, skin, and respiratory system.

Potential Health Effects

- Eye: May cause irritation experienced as stinging and discomfort or pain.
- Skin: Prolonged or repeated exposure may cause skin irritation. May cause more severe response if confined to skin or skin is abraded (scratched or cut). A single, prolonged skin exposure is not likely to result in the material being absorbed through the skin in harmful amounts.
- Ingestion: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may cause injury. Ingestion may cause gastrointestinal irritation. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.
- Inhalation: Single exposure to vapors is not expected to pose a hazard. Excessive exposure may cause irritation to upper respiratory tract.

Chemical ingredients listed as a carcinogen or potential carcinogen

This mixture contains a very small amount of the trisodium salt of nitrilotriacetic acid (trisodium NTA, CAS 5064-31-3) which is listed as a potential carcinogen for hazard communication purposes under OSHA Standard 20 CFR 1910.1200. Components listed by IARC and NTP: Trisodium nitrilotriacetate. Although large dietary doses of NTA have caused urinary tumors in laboratory animals, there is little likelihood that NTA would cause cancer in humans, especially at subtoxic doses. The trisodium salt of EDTA did not cause cancer in laboratory animals.

SECTION 4: FIRST AID MEASURES

Emergency and First Aid Procedures for Overexposure

- Eye Contact: Immediately flush with plenty of water while lifting eyelids and rolling eyes. Seek medical attention if irritation occurs.
- Skin Contact: Wash promptly with soap and water. Get medical attention if irritation occurs.
- Inhalation: Remove person to fresh air. If necessary, restore and support breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get prompt medical attention.
- Ingestion: DO NOT induce vomiting. If conscious and medical help is not readily available, give 1-2 glasses of water and keep at rest. Never attempt to give anything by mouth to an unconscious person.
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SECTION 5: FIRE FIGHTING MEASURES

- Flash Point None to boiling
- Flammable Limits in Air None established for product as a whole.
- Fire Fighting Keep people away. Isolate fire area and deny unnecessary entry. To extinguish combustible residues of this product, use water fog, carbon dioxide, dry chemical, or foam. This material will not burn until the water has evaporated. Fire fighters should wear positive pressure, self-contained breathing apparatus and protective fire fighting clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.
- Extinguishing Media To extinguish combustible residues of this product, use water fog, carbon dioxide, dry chemical, or foam. Alcohol resistant foams are preferred if available. Do not use direct water stream.
- Decomposition Products Under Fire Conditions
Under fire conditions, some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include nitrogen oxides, carbon monoxide, ammonia, sulfur dioxide, and carbon dioxide.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

- Material Release or Spill Isolate area. Prevent wash water entering natural waterways or public water supplies. Clean up residual with non-combustible absorbent material and wash with water. Collect material in suitable and properly labeled open containers. Surfaces may be slippery after spillage.
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SECTION 7: HANDLING AND STORAGE

- Handling and Storage Store in cool, ventilated area, out of direct sunlight, away from ignition sources. Keep containers tightly closed.
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection	Eye / Face Protection: Use chemical goggles or safety glasses. Eye wash fountain should be located in immediate work area. Skin Protection: Wear clean, long-sleeved, body-covering clothing. If hands are cut or scratched, use gloves impervious to this material even for brief exposures. Respiratory Protection: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.	
Workplace Exposure Guidelines	Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.	
Note	Personal protection information given is based upon the general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.	
Exposure Guidelines	None established for product as a whole.	
Exposure Guidelines for Individual Components	Dipropylene glycol monomethyl ether	OSHA PEL: 100 ppm TWA, 150 ppm STEL ACGIH TLV: 100 ppm TWA, 150 ppm STEL

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odor	Mild detergent odor
Boiling Point	> 210°F
Specific Gravity	1.01
pH	9.3 (conc.)
VOC (% wt.)	5.9%

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Hazardous Polymerization	Will not occur.
Incompatible Materials	Avoid contact with strong acids, bases, oxidizing materials, and materials reactive with hydroxyl compounds.
Conditions to Avoid	Avoid prolonged excessive heat.
Hazardous Decomposition Products	Under fire conditions, some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include nitrogen oxides, carbon monoxide, ammonia, sulfur dioxide, and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

No information exists for product as whole.

Mutagenicity	Most data indicate that EDTA and its salts are not mutagenic. Minimal effects reported are likely due to trace metal deficiencies resulting from chelation by EDTA.
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SECTION 12: ECOLOGICAL INFORMATION

No information exists for product as whole.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of Material	Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all federal, state/provincial, and local laws and regulations.
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SECTION 14: TRANSPORT INFORMATION

D.O.T. Shipping Name	Cleaner
D.O.T. Hazard Class	Non-hazardous, Non-flammable

SECTION 15: REGULATORY INFORMATION

TSCA Status	All ingredients used in Bix Exterior Window Washer are TSCA listed.
SARA Title III Status Section 313	None of the ingredients used in Bix Exterior Window Washer are regulated under Section 313 of SARA Title III.

SECTION 16: OTHER INFORMATION

NFPA Rating	1,0,0
Effective Date	March 27, 2001
Supersedes Date	March 20, 2001
Sections Revised	New ANSI format. Updated all previous information.

This Material Safety Data Sheet adheres to ANSI standard ANSI Z400.1-1993.

The data contained herein is based on information currently available to BIX Mfg. Co., Incorporated and is believed to be factual. As a formulator, blender, and compounder, BIX Mfg. Co., Incorporated does not manufacture the raw materials used in this product and correspondingly relies on information provided to BIX Mfg. Co., Incorporated from material safety data sheets on the specific raw materials in the construction of this material safety data sheet. Such information is to the best of BIX Mfg. Co., Incorporated's knowledge and belief to be accurate and reliable as of the date of this MSDS. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY, OR COMPLETENESS. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. This data is not to be taken as a warranty or representation of which BIX Mfg. Co., Incorporated assumes legal responsibility.